LEVEL ONE INSPECTION - CHECK LIST

TO BE PERFORMED BY THE MAINTENANCE OFFICE

THINGS TO LOOK FOR AND MAKE NOTE OF:

Shape Has the culvert lost its structural shape? YES NO CROWN COLLAPSING, SIDES BEING PUSHED IN OR OUT, If yes, is the BOTTOM HEAVING UP, END OF CULVERT FALLING OFF? <u>Invert</u> Concrete - Is the rebar exposed? YES If yes, what % of rebar in the invert is showing? Is the corrosion severity of the rebar LOW, MEDIUM, HIGH? Steel - Is the invert rusted? YES / NO If yes, is the invert INTACT, PERFERATED, GONE? <u>Plastic</u> - Are there signs of abrasion? **YES** If yes, is the invert INTACT, PERFORATED, GONE? Natural Bottom – Does the culvert have a natural invert? YES If yes, is the invert STABLE, DEGRADING, AGGRADING? **Joints** Are the joints separating? YES / NO If so, how many joints are completely separated so that misalignment of the barrels can occur? Have the barrels become misaligned? YES NO Seams Are the seams in a spiral metal culvert showing signs of stress by opening up or otherwise coming apart? YES If yes, what % of the seams are opening? Where are the open seams? INVERT, SIDE, **CROWN? Head walls** Are there any headwalls?

Coatings

Are there any coatings? YES NO? If yes, is the coating INTACT, PARTIALLY GONE, MOSTLY GONE?

ROCK,

SACKS RIP-RAP?

YES /

If yes, what are they made of CONCRETE,

Erosion at ends of culvert

Are there any signs of erosion at the inlet or outlet? <u>YES</u> / <u>NO</u> If yes, is the erosion <u>SLIGHT</u>, <u>MODERATE</u>, or <u>SEVERE</u>?

Piping along barrel

Is there any evidence of water piping along the outside of the barrel? <u>YES</u> / <u>NO</u> If yes, is the piping <u>SLIGHT</u>, <u>MODERATE</u>, or <u>SEVERE</u>?

Bed load and debris

Is there any bed load or debris in the culvert? YES / NO
If yes, is the amount of bed load and/or debris LIGHT, MODERATE, HEAVY?

Other comments or sketches as you feel are needed:

LEVEL TWO INSPECTION - CHECK LIST TO BE PERFORMED BY THE HYDRAULICS & WATER QUALITY OFFICE

Date	Inspected By
GENERAL INFORMATION (Provide the following and/or ci	rcle all the descriptors below that apply.)
Location – Route MP Offset Right/Left GPS Coordinates	_
Date the culvert was installed -	
-	ALUMINUM PLASTIC (HDPE) OTHER JASH PIPE MULTI PLATE
	THREE SIDED BOX
Size – Diameter Or Transverse dimension Vertical dimension Longitudinal dimension Slope of invert or crown	
STRUCTURAL CON (Circle all the descriptors below	
Shape Has the culvert lost it's structura If yes, is the CROWN COL BOTTOM HEAVING UP, Describe the current shape.	· — —

<u>Invert</u> <u>Concrete</u> - Is the rebar exposed? <u>YES</u> / <u>NO</u>
If yes, what % of rebar in the invert is showing?
Is the corrosion severity of the rebar <u>LOW</u> , <u>MEDIUM</u> , <u>HIGH</u> ?
Describe the extent of exposure and the severity of corrosion.
<u>Steel</u> - Is the invert rusted? <u>YES</u> / <u>NO</u>
If yes, is the invert <u>INTACT</u> , <u>PERFERATED</u> , <u>GONE</u> ?
Describe the severity of corrosion.
<u>Plastic</u> - Are there signs of abrasion? <u>YES</u> / <u>NO</u>
If yes, is the invert <u>INTACT</u> , <u>PERFORATED</u> , <u>GONE</u> ?
Describe the severity of abrasion.
Natural Bottom – Does the culvert have a natural invert? YES / NO
If yes, is the invert <u>STABLE</u> , <u>DEGRADING</u> , <u>AGGRADING</u> ?
If degrading or aggrading describe the severity.
T-2-4-
Joints Are the joints separating? YES / NO
If so, how many joints are completely separated so that misalignment of the barrels can
occur?
Have the barrels become misaligned? <u>YES</u> / <u>NO</u>
Describe to what extent.

Seams Are the seams in a spiral metal culvert showing signs of stress by opening up or otherwise coming apart? YES / NO If yes, what % of the seams are opening? Where are the open seams? INVERT, SIDE, CROWN? Describe the current condition.
Head walls Are there any headwalls? YES / NO If yes, what are they made of CONCRETE, ROCK, SACKS RIP-RAP? Describe the current condition.
OTHER INFORMATION (Circle all the descriptors below that apply.)
Coatings Are there any coatings? YES / NO? If yes, is the coating COMPLETELY INTACT, PARTIALLY GONE, COMPLETELY GONE? Describe the current condition.
Erosion at ends of culvert Are there any signs of erosion at the inlet or outlet? YES / NO If yes, is the erosion SLIGHT, MODERATE, or SEVERE? Describe the current condition.

Piping along barrel Is there any evidence of water piping along the outside of the barrel? YES / NO If yes, is the piping SLIGHT, MODERATE, or SEVERE? Describe the current condition.
Bed load and debris Is there any bed load or debris in the culvert? YES / NO
If yes, is the amount of debris LIGHT, MODERATE, HEAVY?
Describe the current condition.
-
HYDRAULIC CAPACITY
Describe how the sub-basin is changing with respect to land use and how the changes
might effect the hydraulic capacity of the culvert.
inight crieet the hydraune capacity of the curvert.
FISH PASS-ABILITY
Does this culvert need to be fish passable? YES / NO
If yes, provide the following information.
Existing slope of the culvert (from above).
Depth of flow
Weather for the past week.
media for the past week.

Describe
Bed load and debris in the culvert (from above).
Describe
Upstream characteristics
Describe
Downstream characteristics
Describe
OHWL width upstream and down stream
Describe -
Any blockages that can be seen either up or down stream of culvert.
Describe -
<u>HIGHWAY INFORMATION</u>
Current ADT of highway is
What detours are possible?

PHOTOGRAPHS

Upstream conditions Inlet Interior Outlet Downstream conditions

OTHER COMMENTS AND/OR SKETCHES

Provide any other comments and/or sketches necessary to fully describe any of the items above, or any other items the inspector deems appropriate.